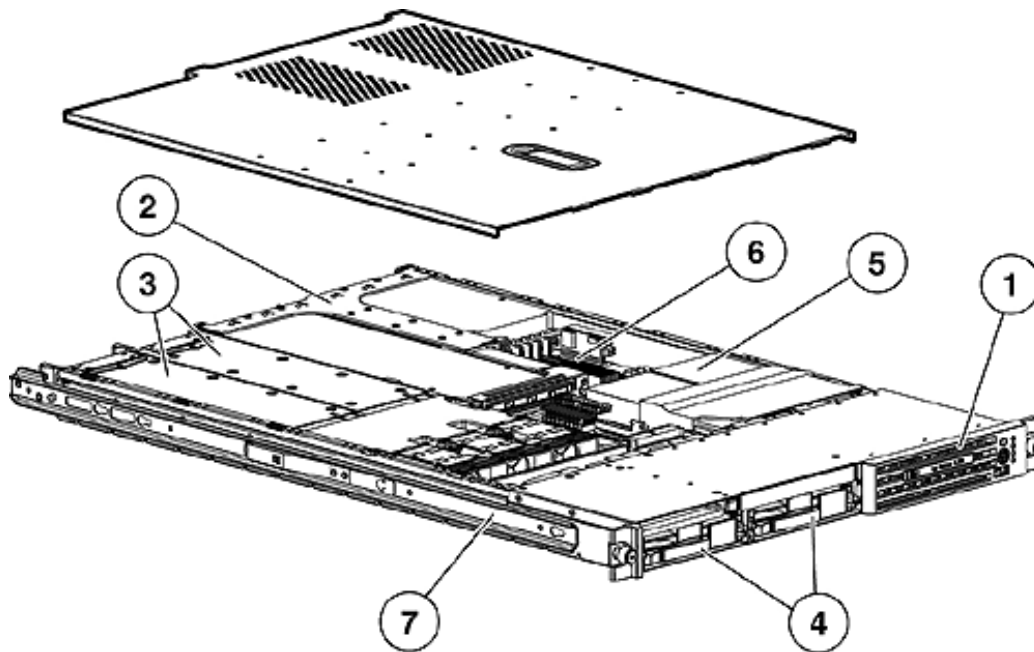


Overview



1. Redundant fans standard
2. 1 full length and 1 half length PCI-X slots (optional PCI Express)
3. Optional redundant power supplies
4. Two 1" U320 hot plug drive bays (SATA models also available)
5. Up to two Xeon processors with 800MHz FSB
6. Up to 8GB PC2700 SDRAM
7. Sliding rails standard for in rack servicing

What's New

- Intel® Xeon 3.6 GHz/800 SCSI & SATA Models

Overview

At A Glance

- Intel® Xeon 3.0 GHz/800 Processor (dual capability) with 1-MB L2 cache
- Intel® Xeon 3.4 GHz/800 Processor (dual capability) with 1-MB L2 cache
- Intel® Xeon 3.6 GHz/800 Processor (dual capability) with 1-MB L2 cache
- Combining concentrated 1U compute power, integrated Lights-Out management, and essential fault tolerance, the DL360 is optimized for space constrained data center installations.
- Up to 2 Intel Xeon 3.0 GHz/1MB, 3.4 GHz/1MB and 3.6 GHz/1MB Processors with 800MHz front side bus and EM46T Technology
- Up to 8GB of PC2700 DDR 333 SDRAM; system can be configured for 2:1 interleaving
- Advanced ECC memory standard; optional Online Spare Memory
- Two 64 bit/133 MHz PCI-X slots (one full length slot and one half length); optional PCI-Express
- **NOTE:** For information about PCI Express visit: <http://www.hp.com/servers/pci-express>
- Fan redundancy, standard
- 460-Watt hot plug power supply with optional 1+1 redundancy
- Integrated Lights-Out (iLO) remote management embedded on every DL360
- Support for new iLO Shared Network Port enables access to the iLO management processor through one of the embedded system NICs
- Embedded Smart Array 6i RAID Controller with optional 128MB transportable BBWC
- Embedded NC7782 Dual Port NIC
- Supports up to two 1" Ultra320 hot plug hard drives; Serial ATA models also available
- Three USB ports available: rear, front, internal.
- 1U Rack form factor (1.75")
- Intel E7520 chipset
- New spring-loaded Universal sliding rails for in rack servicing ship standard; optional ambidextrous cable management arm
- ProLiant Essential Foundation Pack standard, including HP Systems Insight Manager, SmartStart, SmartStart Scripting Toolkit, Subscriber's Choice and ROM Based Setup Utility (RBSU).
- Protected by HP Services, including a three-year, next business day on-site limited global warranty and extended Pre-Failure Warranty which covers processors, memory, and hard drives - Certain restrictions and exclusions apply. Consult the HP Customer Support Center at 1-800-345-1518 for details.

Standard Features

NOTE: For the Standard Features shipped in the "Factory Integrated Models", please see the "Configuration Information - Factory Integrated Models" section.

Processor Intel Xeon Processor 3.0 GHz/800MHz -1MB L2
One of the following depending on Model Intel Xeon Processor 3.4 GHz/800MHz -1MB L2
 Intel Xeon Processor 3.6 GHz/800MHz -1MB L2

Cache Memory 1-MB Level 2 cache

Upgradability Upgradeable to dual processing

Chipset Intel chipset is E7520

Memory

Type	PC2700 DDR 333 SDRAM
Standard	1GB (1 x 1GB)
Maximum	8 GB

Memory Protection Online spare
 Advanced ECC

Network Controller Embedded NC7782 Dual Port NIC

Expansion Slots	Slot Number	Bus Speed	Bus Number*	Device Number**	Hot Plug	PCI Voltage	Notes
	1	64-bit/133MHz PCI-X	7	0	no	3.3 Volt	
	1	PCI Express x8(optional)	3	0	no	X8	
	2	64-bit/133MHz PCI-X	10	0	no	3.3 Volt	
	2	PCI Express x8(optional)	13	0	no	X8	

NOTE: Default bus assignment. Inserting cards with PCI bridges may alter the actual bus assignment number.

NOTE: Slots are enumerated differently based on OS. MS OS's enumerate from lowest to highest Device ID by bus (starting with the lowest bus).

NOTE: For information about PCI Express visit: <http://www.hp.com/servers/pci-express>

NOTE: For more information regarding PCI-X, please see the following URL: <http://www.HP.com/pci-x>.

NOTE: All slots can accept universal keyed PCI cards

Manageability Integrated Lights-Out (iLO) Management (integrated on motherboard)

Storage Controllers Smart Array 6i Controller (integrated on system board of SCSI models) or non-RAID SATA on SATA models (SATA RAID functionality is available via OS software RAID)

NOTE: The ProLiant DL360 Generation 4 (G4) does not offer an external SCSI port.

Standard Features

Storage	Diskette Drive	1.44 MB Diskette Drive; optional in some models
	Optical Drive	24x IDE CD-ROM Drive (Low-Profile) (ejectable); optional in some models

Maximum Internal Storage Type	Hot Plug SCSI	600 GB	2 x 300 GB Ultra320
	SATA	500 GB	2 x 250 GB Serial ATA

Interfaces	Serial	1
	Pointing Device (Mouse)	1
	Graphics	1
	Hot Plug Keyboard	1
	USB	3 (rear, front, internal)
	Network RJ-45	2
	iLO remote management port	1

NOTE: Please see the following URL for additional information regarding USB support: <http://h18004.www1.hp.com/products/servers/platforms/usb-support.html>.

Graphics	Integrated ATI RAGE XL Video Controller with 8-MB SDRAM Video Memory
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Form Factor	Rack (1U), (1.75 in/4.45 cm)
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Standard Features

ProLiant Essentials Foundation Pack Software

HP Systems Insight Manager	HP's new HP Systems Insight Manager (HP SIM) helps maximize system uptime and performance and reduce system maintenance costs by providing proactive notification of problems before those problems result in unplanned downtime or reduced productivity. HP SIM are both easy to set up work with the Insight Management Agents, integrated Light-Out and Remote Insight Light-Outs Edition, and Version Control Agents to deliver robust fault, configuration, and asset management as well as remote administration. With HP SIM customers will also be able to take advantage of role-based security; the ability to manage ProLiant, Integrity, and HP 9000 systems; and plug-ins for storage, client, printer, and power management as well as server rapid deployment, performance management, and workload management. For more details on HP SIM visit http://www.hp.com/go/hpsim .
SmartStart	SmartStart is a tool that simplifies server setup, providing a rapid way to deploy reliable and consistent server configurations. For more information, please visit the SmartStart Web site at http://www.hp.com/servers/smartstart . SmartStart version supported (minimum): SmartStart 7.10.
Management Agents	The Management Agents form the foundation for HP's Intelligent Manageability strategy. They provide direct, browser-based access to in-depth instrumentation built into HP servers, workstations, desktops, and portables, and send alerts to HP System Insight Manager and other enterprise management applications in case of subsystem or environmental failures. For additional information about the Management Agents and other management products from HP, please visit the management Web site at http://www.hp.com/servers/manage .
Subscriber's Choice	Subscriber's Choice Driver and Support Alerts/Notifications is a web-based email subscription service that provides automatic delivery of software and driver change notifications for ProLiant products. Sign up at http://www.hp.com/go/subscriberschoice and customize your profile to receive various new alerts as they become available, on a weekly or monthly basis.
ROMPaq, support software, and configuration utilities	The latest software, drivers, and firmware fully optimized and tested for your ProLiant server and options available in SmartStart or downloadable from Software and Drivers download pages: http://www.hp.com/go/support
Insight Diagnostics Online Edition	The most advanced configuration analysis, reporting and troubleshooting utilities used by HP and at your fingertips, available in SmartStart.
Optional ProLiant Essentials Value Packs	Optional software offerings that selectively extend the functionality of an Adaptive Infrastructure to address specific business problems and needs: <ul style="list-style-type: none">● Rapid Deployment Pack - an automated solution for multi-server deployment and provisioning, enabling companies to quickly and easily adapt to changing business demands.● Workload Management Pack - provides easier management of complex environments, improving overall server utilization and enabling Windows® 2000 customers for the first time to confidently deploy multiple applications on a single multiprocessor ProLiant Server.● Integrated Lights-Out Advanced Pack - upgrades the Integrated Lights-Out processor to full virtual presence and control with graphical console and virtual media.● Recovery Server Option Pack - entry-level high availability software that will provide reliable protection and increased uptime against server hardware and operating system failures.● Performance Management Pack - a performance management solution that identifies and explains hardware performance bottlenecks on ProLiant servers and attached options enabling users to better utilize their valuable resources.

NOTE: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to <http://www.hp.com/servers/proliantessentials> or the various ProLiant Essentials Value Pack product QuickSpecs for more information.

NOTE: For more information regarding ProLiant Essentials Software, please see the following URL: <http://www.hp.com/servers/proliantessential>.

Standard Features

Industry Standard Compliance	ACPI 1.0b Compliant
	PCI 2.2 Compliant
	Microsoft® Logo certifications
	USB 1.1 and 2.0 Compliant

Remote Manageability	Integrated Lights-Out (iLO) Standard Management: <ul style="list-style-type: none">● Virtual Text Remote Console● Virtual Power Button Control● Dedicated & shared LAN Connectivity● Browser and command line access● Automatic IP Configuration via DHCP/DNS/WINS● Industry Standard 128-bit Secure Sockets Layer (SSL) and Secure Shell Security● IML and iLO Event Logging● Support for 12 user accounts with customizable access privilege
	Integrated Lights Out Advanced Pack (optional) Remote Lights out Edition II (optional)

Intelligent Manageability	HP Systems Insight Manager
	SmartStart
	Remote Insight Lights-Out Edition II (optional)
	ROM-Based Setup Utility (RBSU)
	Remote-Flash Redundant ROM
	Integrated Management Log (IML)
	Server Health logging
	Automatic Server Recovery-2 (ASR-2)
	System Interconnect Status Indicators
	Dynamic sector repairing and drive parameter tracking (with Smart Array controllers)
	Hot Spare Boot
	(NOTE: Upon the event of a failed processor or VRM in a multi-processing environment, the system will automatically reboot and use the remaining good processor(s).)
	Power Down Utility
Pre-Failure Warranty (covers processors, as well as hard drives and memory)	

Security	Power-on password
	Keyboard password
	Diskette drive control
	Diskette boot control
	QuickLock, Network Server Mode
	Removable CD and Floppy Drive Assembly
	Serial interface control
	Administrator's password
	Disk configuration lock
	Integrated Lights-Out has 12 customizable user accounts and SSL encryption
	Integrated Lights-Out can be disabled via a Global Setting

Server Power Cords	High line cord ships standard with all skus, an additional low line cord for US and Japan
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Power Supply	460W Optional (1+ 1 redundant) power supply
	NOTE: PN 354587-B21 contains the optional power supply and an IEC power cable only; purchase if connecting to PDU/UPS that supports IEC cables. PN 354587-001 contains a country-specific low line (NEMA) power cord only.

Standard Features

System Fans 7 fans ship standard; Fan redundancy standard

Required Cabling For required cabling information, refer to the Web site at <http://h18000.www1.hp.com/products/servers/proliantdl360/>.

OS Support Microsoft Windows 2000
Windows Server 2003
Novell NetWare
Linux (Red Hat, SuSE, UnitedLinux)
Solaris

NOTE: SCSI and SATA models have different OS support. Please see OS Support Matrix.
NOTE: For a more complete and up-to-date listing of supported OSs and versions, please visit our OS Support Matrix page at: <http://www.hp.com/go/supportos>.
NOTE: For more complete and up-to-date information on how to buy server operating systems from HP please visit the OS product site at: <http://h18004.www1.hp.com/products/servers/software/OEM.html>
NOTE: For a listing of the latest drivers available for the ProLiant DL360, please see: <http://h18023.www1.hp.com/support/files/server/us/index.html>.
NOTE: For a more complete and up-to-date information on Linux support, please visit HP Linux Web site at <http://h18000.www1.hp.com/products/servers/linux/hpLinuxcert.html>.

Rack Airflow Requirements Rack 10000 series Cabinets

The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The 10000 Series Racks provide enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.

CAUTION: If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment:

- **Front and rear doors:** If your 42U server rack includes closing front and rear doors, you must allow 830 square inches (5,350 sq cm) of hole evenly distributed from top to bottom to permit adequate airflow (equivalent to the required 64 percent open area for ventilation).
- **Side:** The clearance between the installed rack component and the side panels of the rack must be a minimum of 2.75 inches (7 cm).

CAUTION: Always use blanking panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels results in improper cooling that can lead to thermal damage.

NOTE: For additional information, refer to the Setup and Installation Guide or the Documentation CD provided with the server, or to the server documentation located in the Support section at the following URL: <http://h18000.www1.hp.com/products/servers/proliantdl360/index.html>.

HP Factory Express Capabilities

HP Factory Express gives you the flexibility to choose from a full menu of factory capabilities all in one manufacturing facility, in one process, with one touch giving you full control and access to HP's World class manufacturing facility anytime. This approach provides you the speed to deploy your IT needs, with total quality assurance, reliability, and predictability to lower your total cost of ownership by letting HP install, rack, and customize your software and hardware options for you.

Standard Features

Service and Support

Three-year limited warranty, including hardware diagnostic support, pre-failure warranty (coverage of hard drives, memory and processors). The warranty is fully supported by HP Services and a worldwide network of resellers and service providers. In addition 90-day's getting started software telephone support may be covered under the warranty or available for an additional fee. Enhancements to warranty services are available through HP Care Pack services.

NOTE: Limited warranty includes 3 year parts, 3 year labor, 3-year on-site support

NOTE: SATA drives have a 1 year warranty.

Care Pack services provide a range of life cycle support options that let you choose the service levels that meet your business requirements, from basic to mission-critical.

A full range of HP Care Pack hardware and software services are available including:

- Installation and start up
- Education courses
- Extended onsite hardware coverage hours from same business day 13 hours, 5 day to 24 hours, 7 days call window with options including 4-hour response or 6-hour Call To Repair
- Comprehensive range of software technical support for Microsoft, Linux, ProLiant Essentials and VMWare-based IT solutions helping to deliver high level of application availability. Response times range from 30 mins for critical problems to 2 hours.
- System Management, Performance Services and Mission Critical Support Solution

HP Care Pack Services include HP branded hardware options qualified for the server, purchased at the same time or afterwards, internal to the enclosure, as well as 22" and smaller external monitors and tower UPS options up to 3KVA. 22" and smaller external monitors will be covered at the same service level and coverage period as the server. For servers or storage systems installed within a rack, service also covers all HP qualified rack options installed within the same rack.

NOTE: For more information on HP Care Pack services, contact any of our worldwide sales offices or resellers or visit our worldwide Web site on the internet at: <http://www.hp.com/hps/carepack>

NOTE: For more complete information on HP Services offerings, customers and resellers, please visit us at: <http://www.hp.com/hps>

NOTE: Additional information regarding worldwide limited warranty and technical support is available at: <http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html>

Models

DL360R04 X3.6-1MB/800, Processor 1GB SCSI 360528-xx1	Cache Memory	(1) Intel Xeon Processor 3.6-GHz/800MHz standard (up to 2 supported) 1-MB level 2 cache	
	Memory	1 x 1-GB (Standard) to 8-GB (Maximum) of PC2700 DDR 333 SDRAM	
	Network Controller	Embedded NC7782 Dual Port NIC	
	Storage Controller	U320 Smart Array 6i Controller (embedded on system board) NOTE: The ProLiant DL360 Generation 4 (G4) does not offer an external SCSI port.	
	Hard Drives	None ship standard; system supports up to two 1" hot plug U320 drives NOTE: The DL360 G4 SCSI models only support U320 Universal Hot Plug drives.	
	Remote Management	Integrated Lights-Out (iLO) Standard Management (embedded)	
	Power Supply	One 460W power supply (redundant power supply optional)	
	Optical Drive	24x IDE CD-ROM Drive (Low-profile)	
	Diskette Drive	1.44 MB Diskette Drive	
	PCI-X Slots	1 full length and 1 half length 64bit/133MHz PCI-X slot	
	Form Factor	Rack (1U), (1.75 in/4.45 cm)	
	<hr/>		
	DL360R04 X3.6-1MB/800, Processor 2GB SCSI, RPS 377376-xx1	Cache Memory	(1) Intel Xeon Processor 3.6-GHz/800MHz standard (up to 2 supported) 1-MB level 2 cache
Memory		1 x 1-GB (Standard) to 8-GB (Maximum) of PC2700 DDR 333 SDRAM	
Network Controller		Embedded NC7782 Dual Port NIC	
Storage Controller		U320 Smart Array 6i Controller (embedded on system board) NOTE: The ProLiant DL360 Generation 4 (G4) does not offer an external SCSI port.	
Hard Drives		None ship standard; system supports up to two 1" hot plug U320 drives NOTE: The DL360 G4 SCSI models only support U320 Universal Hot Plug drives.	
Remote Management		Integrated Lights-Out (iLO) Standard Management (embedded)	
Power Supply		Two 460W power supply (1 + 1 redundant)	
Optical Drive		24x IDE CD-ROM Drive (Low-profile)	
Diskette Drive		1.44 MB Diskette Drive	
PCI-X Slots		1 full length and 1 half length 64bit/133MHz PCI-X slot	
Form Factor		Rack (1U), (1.75 in/4.45 cm)	
<hr/>			
DL360R04 X3.6-1MB/800, Processor 1GB SATA 377375-xx1		Cache Memory	(1) Intel Xeon Processor 3.6-GHz/800MHz standard (up to 2 supported) 1-MB level 2 cache
	Memory	1 x 1-GB (Standard) to 8-GB (Maximum) of PC2700 DDR 333 SDRAM	
	Network Controller	Embedded NC7782 Dual Port NIC	
	Storage Controller	Non-RAID SATA (SATA RAID functionality is available via OS software RAID)	
	Hard Drives	None ship standard; system supports up to two Serial ATA drives NOTE: When SATA drives are installed, hot-plug capability and LEDs are currently not supported.	
	Remote Management	Integrated Lights-Out (iLO) Standard Management (embedded)	
	Power Supply	One 460W power supply (redundant power supply optional)	
	Optical Drive	Optional on SATA Models	
	Diskette Drive	Optional on SATA Models	
	PCI-X Slots	1 full length and 1 half length 64bit/133MHz PCI-X slot	
	Form Factor	Rack (1U), (1.75 in/4.45 cm)	

Models

DL360R04 X3.4-1MB/800, Processor 2GB SCSI, RPS 354572-xx1	Cache Memory	(1) Intel Xeon Processor 3.4-GHz/800MHz standard (up to 2 supported) 1-MB level 2 cache	
	Memory	2 x 1-GB (Standard) to 8-GB (Maximum) of PC2700 DDR 333 SDRAM	
	Network Controller	Embedded NC7782 Dual Port NIC	
	Storage Controller	U320 Smart Array 6i Controller (embedded on system board) NOTE: The ProLiant DL360 Generation 4 (G4) does not offer an external SCSI port.	
	Hard Drives	None ship standard; system supports up to two 1" hot plug U320 drives NOTE: The DL360 G4 SCSI models only support U320 Universal Hot Plug drives.	
	Remote Management	Integrated Lights-Out (iLO) Standard Management (embedded)	
	Power Supply	Two 460W power supply (1+ 1 redundant)	
	Optical Drive	24x IDE CD-ROM Drive (Low-profile)	
	Diskette Drive	1.44 MB Diskette Drive	
	PCI-X Slots	1 full length and 1 half length 64bit/133MHz PCI-X slot	
	Form Factor	Rack (1U), (1.75 in/4.45 cm)	
	<hr/>		
	DL360R04 X3.4-1MB/800, Processor 1GB SCSI 354571-xx1	Cache Memory	(1) Intel Xeon Processor 3.4-GHz/800MHz standard (up to 2 supported) 1-MB level 2 cache
Memory		1 x 1-GB (Standard) to 8-GB (Maximum) of PC2700 DDR 333 SDRAM	
Network Controller		Embedded NC7782 Dual Port NIC	
Storage Controller		U320 Smart Array 6i Controller (embedded on system board) NOTE: The ProLiant DL360 Generation 4 (G4) does not offer an external SCSI port.	
Hard Drives		None ship standard; system supports up to two 1" hot plug U320 drives NOTE: The DL360 G4 SCSI models only support U320 Universal Hot Plug drives.	
Remote Management		Integrated Lights-Out (iLO) Standard Management (embedded)	
Power Supply		One 460W power supply (redundant power supply optional)	
Optical Drive		24x IDE CD-ROM Drive (Low-profile)	
Diskette Drive		1.44 MB Diskette Drive	
PCI-X Slots		1 full length and 1 half length 64bit/133MHz PCI-X slot	
Form Factor		Rack (1U), (1.75 in/4.45 cm)	
<hr/>			
DL360R04 X3.4-1MB/800, Processor 1GB 2P SATA 354570-xx1		Cache Memory	(2) Intel Xeon Processor 3.4-GHz/800MHz standard 1-MB level 2 cache
	Memory	1 x 1-GB (Standard) to 8-GB (Maximum) of PC2700 333 DDR SDRAM	
	Network Controller	Embedded NC7782 Dual Port NIC	
	Storage Controller	Non-RAID SATA (SATA RAID functionality is available via OS software RAID)	
	Hard Drives	None ship standard; system supports up to two Serial ATA drives NOTE: When SATA drives are installed, hot-plug capability and LEDs are not currently supported.	
	Remote Management	Integrated Lights-Out (iLO) Standard Management (embedded)	
	Power Supply	One 460W power supply (redundant power supply optional)	
	Optical Drive	Optional on SATA Models	
	Diskette Drive	Optional on SATA Models	
	PCI-X Slots	1 full length and 1 half length 64bit/133 MHz PCI-X slot	
	Form Factor	Rack (1U), (1.75 in/4.45 cm)	

Models

DL360R04 X3.0-1MB/800, Processor 1GB SCSI 368134-xx1	Cache Memory	(1) Intel Xeon Processor 3.0-GHz/800MHz standard (up to 2 supported) 1-MB level 2 cache	
	Memory	1 x 1-GB (Standard) to 8-GB (Maximum) of PC2700 DDR 333 SDRAM	
	Network Controller	Embedded NC7782 Dual Port NIC	
	Storage Controller	U320 Smart Array 6i Controller (embedded on system board) NOTE: The ProLiant DL360 Generation 4 (G4) does not offer an external SCSI port.	
	Hard Drives	None ship standard; system supports up to two 1" hot plug U320 drives NOTE: The DL360 G4 SCSI models only support U320 Universal Hot Plug drives.	
	Remote Management	Integrated Lights-Out (iLO) Standard Management (embedded)	
	Power Supply	One 460W power supply (redundant power supply optional)	
	Optical Drive	24x IDE CD-ROM Drive (Low-profile)	
	Diskette Drive	1.44 MB Diskette Drive	
	PCI-X Slots	1 full length and 1 half length 64bit/133MHz PCI-X slot	
	Form Factor	Rack (1U), (1.75 in/4.45 cm)	
	<hr/>		
	DL360R04 X3.0-1MB/800, Processor 1GB SATA 368150-xx1	Cache Memory	(1) Intel Xeon Processor 3.0-GHz/800MHz standard (up to 2 supported) 1-MB level 2 cache
Memory		1 x 1-GB (Standard) to 8-GB (Maximum) of PC2700 333 DDR SDRAM	
Network Controller		Embedded NC7782 Dual Port NIC	
Storage Controller		Non-RAID SATA (SATA RAID functionality is available via OS software RAID)	
Hard Drives		None ship standard; system supports up to two Serial ATA drives NOTE: When SATA drives are installed, hot-plug capability and LEDs are currently not supported.)	
Remote Management		Integrated Lights-Out (iLO) Standard Management (embedded)	
Power Supply		One 460W power supply (redundant power supply optional)	
Optical Drive		Optional on SATA Models	
Diskette Drive		Optional on SATA Models	
PCI-X Slots		1 full length and 1 half length 64bit/133 MHz PCI-X slot	
Form Factor		Rack (1U), (1.75 in/4.45 cm)	

Country Code Key

XX=00
XX=20
XX=29
XX=37
XX=42
XX=AA

Rack Code Key

US
Brazil
Japan
APD
EURO
PRC

Configuration Information - Factory Integrated Models (North America only)

NOTE: HP does not allow factory integration of options into standard models listed above.

Configure-to-order servers must start with a CTO Chassis.

Step 1: Base Configuration (choose one of the following configurable models)

Models	HP ProLiant DL360G4 SATA Rack CTO Chassis (North America)	367006-405
	Factory Integrated Model ships with:	
	NC7782 Dual Port PCI-X Gigabit Server Adapter (embedded)	
	Non-RAID SATA (SATA RAID functionality is available via OS software RAID)	
	1 full length and 1 half length 64bit/133 MHz PCI-X slot	
	Integrated Lights-Out (iLO) embedded	
	7 fans; Fan redundancy	
	Rack (1U), (1.75 in/4.45 cm)	
	HP ProLiant DL360G4 SCSI Rack CTO Chassis (North America)	367007-405
	Factory Integrated Model ships with:	
	NC7782 Dual Port PCI-X Gigabit Server Adapter (embedded)	
	U320 Smart Array 6i Controller (embedded on system board)	
	1 full length and 1 half length 64bit/133 MHz PCI-X slot	
	Integrated Lights-Out (iLO) embedded	
	1.44MB Diskette Drive	
	7 fans; Fan redundancy	
	Rack (1U), (1.75 in/4.45 cm)	

Step 2: Choose Required Options (only one of the following from each list unless otherwise noted)

Processors	Intel X3.0GHz/800-1MB DL360G4 FIO BASE	368152-L21
	Intel X3.4GHz/800-1MB DL360G4 FIO BASE	354582-L21
Base Memory	NOTE: 2:1 interleaving requires that both DIMMs in a bank be populated.	
	512MB of Advanced ECC PC2700 DDR SDRAM DIMM Memory Kit (1 x 512 MB)	358347-B21
	HP ProLiant 1GB PC2700 SGLDIMM FIO BASE	358348-L21
	2048-MB of Advanced ECC PC2700 DDR SDRAM DIMM Memory Kit (1 x 2 GB)	358349-B21
Optical Drive	NOTE: An Optical Drive is REQUIRED if choosing the 367007-405 SCSI Rack CTO Chassis Model in Step 1.	
	NOTE: Optical Drives are OPTIONAL if choosing the 367006-405 SATA Rack CTO Chassis Model in Step 1.	
	Slimline CD-ROM Drive 24X	356963-B21
	NOTE: This CD-ROM Drive (PN 356963-B21) is for SATA models.	
	Slimline CD-RW/DVD-ROM Combo Option Kit	331903-B21
	Slimline DVD-ROM Drive (8X/24X) Option Kit	264007-B21

Step 3: Choose Additional Factory Integratable Options

Diskette Drive	1.44 MB Diskette drive	354588-B21
	NOTE: This Diskette Drive is for SATA (367006-405) models	
Optical Drive	NOTE: The Optical Drive is OPTIONAL for the SATA Rack CTO Chassis Model (367006-405) but REQUIRED if choosing the SCSI Rack CTO Chassis Model (367007-405) in Step 1	
	Slimline CD-ROM Drive 24X	356963-B21
	NOTE: This CD-ROM Drive (PN 356963-B21) is for SATA models.	
	Slimline DVD-ROM Drive (8X/24X) Option Kit	264007-B21

Configuration Information - Factory Integrated Models (North America only)

Step 4: Choose Additional Options for Factory Integration

NOTE: For additional options, please refer to the "Options" section below.

Options

NOTE: Some options may not be factory integratable. Please contact your local sales representative for additional information.

ProLiant DL360 G4 Unique Options	Intel Xeon 3.0GHz/800MHz-1MB Processor Option Kit NOTE: This processor option kit (PN 368152-B21) supports the ProLiant DL360 G4 only.	368152-B21
	Intel Xeon 3.4GHz/800MHz-1MB Processor Option Kit NOTE: This processor option kit (PN 354582-B21) supports the ProLiant DL360 G4 only.	354582-B21
	Intel Xeon 3.6GHz/800MHz-1MB Processor Option Kit NOTE: This processor option kit (PN 354583-B21) supports the ProLiant DL360 G4 only.	354583-B21
	1.44 MB Diskette Drive NOTE: This Diskette drive is for SATA models only.	354588-B21
	PCI-e Riser option (to convert one or both PCI-X to PCI-e slots)	354589-B21
	Ambidextrous cable management arm NOTE: Package contains two cable management arms	365403-B21
	Fixed Cord Extension Bars for 1U servers (2 PDU sticks per kit)	351655-B21
	460W HP redundant power supply with IEC cord only	354587-B21
	460W HP redundant power supply with US or Japanese NEMA cord only NOTE: The HP ProLiant DL360 G4 ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For stand-alone deployments or installation without a rack, country-specific power cord options are available. U.S., Japan, & APD models ship with two power cords: IEC-IEC and country-specific NEMA cords.	354587-001

ProLiant Essentials Value Pack Software	Rapid Deployment Pack, 1 User, V1.x NOTE: This license allows 1 server to be managed and deployed via the Deployment Server.	267196-B21
	Rapid Deployment Pack, 1 User, V1.x (Japan) NOTE: This license allows 1 server to be managed and deployed via the Deployment Server.	267196-291
	Rapid Deployment Pack, 10 Users, V1.x NOTE: This license allows 10 servers to be managed and deployed via the Deployment Server.	269817-B21
	Rapid Deployment Pack, 10 Users, V1.x (Japan) NOTE: This license allows 10 servers to be managed and deployed via the Deployment Server.	269817-291
	ProLiant Essentials Workload Management Pack (Featuring Resource Partitioning Manager version 2.0)	303284-B21
	Flexible Quantity License Kit	302127-B21
	License-Only - for use with a Master License Agreement	302128-B21
	ProLiant Essentials Integrated Lights-Out Advanced Pack (Featuring: sophisticated virtual administration features for ultimate control of servers in the data centers and remote sites)	263825-B21
	ProLiant Essentials Recovery Server Option Pack	280189-B21
	ProLiant Essentials Intelligent Networking Pack (1 License)	372906-B21
	ProLiant Essentials Intelligent Networking Pack Flex License	372950-B21
	ProLiant Essentials Intelligent Networking Pack Track License	372951-B21
	Performance Management Pack, single server NOTE: This license allows 1 server to be managed by Performance Management Pack.	306696-B21
	Performance Management Pack, flexible license kit NOTE: A single pack is shipped with a single license key for the total number of licenses ordered NOTE: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to http://www.hp.com/servers/proliantessentials or the various ProLiant Essentials Value Pack product QuickSpecs for more information. NOTE: For more information regarding ProLiant Essentials Software, please see the following URL: http://www.hp.com/servers/proliantessentials .	306697-B21

Options

ProLiant Software Maintenance Subscription	ProLiant Software Maintenance Subscription	355060-B21
	ProLiant Software Maintenance Single Release	356573-B21
	ProLiant Foundation Pack Single Release	356604-B21
	NOTE: Please see the SmartStart QuickSpecs for additional information regarding the subscription purchase: http://h18000.www1.hp.com/products/quickspecs/12007_div/12007_div.HTML (Worldwide) http://h18000.www1.hp.com/products/quickspecs/12007_na/12007_na.HTML (North America)	
Software	HP digital asset protection	302316-001
Processor	Intel Xeon 3.0GHz/800MHz-1MB Processor Option Kit	368152-B21
	NOTE: This processor option kit (PN 368152-B21) supports the ProLiant DL360 G4 only. Intel Xeon 3.4GHz/800MHz-1MB Processor Option Kit	354582-B21
	NOTE: This processor option kit (PN 354582-B21) supports the ProLiant DL360 G4 only. Intel Xeon 3.6GHz/800MHz-1MB Processor Option Kit	354583-B21
	NOTE: This processor option kit (PN 354583-B21) supports the ProLiant DL360 G4 only.	
Memory (DIMMs)	512MB of Advanced ECC PC2700 DDR SDRAM DIMM Memory Kit (1 x 512 MB)	358347-B21
	1024MB of Advanced ECC PC2700 DDR SDRAM DIMM Memory Kit (1 x 1 GB)	358348-B21
	2048-MB of Advanced ECC PC2700 DDR SDRAM DIMM Memory Kit (1 x 2 GB)	358349-B21
Optical Drives	Slimline CD-RW/DVD-ROM Combo Option Kit	331903-B21
	Slimline DVD-ROM Drive (8X/24X) Option Kit (Servers)	264007-B21
	Slimline CD-ROM Drive 24X	356963-B21
	NOTE: This CD-ROM Drive (PN 356963-B21) is for SATA models Slimline CD-ROM Drive 24X (Carbon)	366788-B21
Diskette Drive	1.44 MB Diskette Drive	354588-B21
	NOTE: This 1.44MB Diskette Drive (PN 354588-B21) is for SATA models	

Options

Hard Drives

Wide Ultra320 – Universal Hot Plug

NOTE: The DL360 G4 only supports U320 Universal Hot Plug drives.

300-GB 10,000 rpm U320 Universal Hard Drive (1")	350964-B22
146.8-GB 10,000 rpm U320 Universal Hard Drive (1")	286716-B22
72.8-GB 10,000 rpm U320 Universal Hard Drive (1")	286714-B22
72.8-GB 15,000 rpm U320 Universal Hard Drive (1")	286778-B22
36.4-GB 15,000 rpm U320 Universal Hard Drive (1")	286776-B22

NOTE: Please see the Hard Drive QuickSpecs for Technical Specifications such as capacity, height, width, interface, transfer rate, seek time, physical configuration, and operating temperature:

U320 Hard Drive QS:

http://h18000.www1.hp.com/products/quickspecs/11531_div/11531_div.HTML (Worldwide)

http://h18000.www1.hp.com/products/quickspecs/11531_na/11531_na.HTML

(North America)

Serial-ATA (SATA) Hard Drive (SATA Models only)

NOTE: When SATA drives are installed, hot-plug capability and LEDs are currently not supported.

NOTE: SATA drives have a 1 year warranty.

80-GB SATA 1.5Gb 7,200 RPM Hard Drive (1")	349237-B21
160-GB SATA 1.5Gb 7,200 RPM Hard Drive (1")	349238-B21
250-GB SATA 1.5Gb 7,200 RPM Hard Drive (1")	349239-B21

NOTE: Please see the SATA Hard Drive QuickSpecs for Technical Specifications such as capacity, height, width, interface, transfer rate, seek time, physical configuration, and operating temperature:

Serial ATA Hard Drive QS:

http://h18000.www1.hp.com/products/quickspecs/11940_div/11940_div.HTML (Worldwide)

http://h18000.www1.hp.com/products/quickspecs/11940_na/11940_na.HTML

(North America)

Options

Storage Controllers	128MB Battery Backed Write Cache Enabler Option Kit NOTE: Upgrade for Smart Array 6i Controller.	346914-B21
	Smart Array 6402/128 Controller NOTE: For support of external drives only.	273915-B21
	Smart Array 6404/256 Controller NOTE: For support of external drives only.	273914-B21
	Smart Array 642 Controller NOTE: For support of external drives only.	291967-B21
	128MB Battery-Backed Cache Enabler NOTE: This 128MB BBWC supports the Smart Array 641 Controller and Smart Array 642 Controller.	351580-B21
	256MB DDR, Battery-Backed Cache Upgrade Kit for SA-6400 NOTE: This 256-MB Battery-Backed Cache Module upgrade kit supports the Smart Array 6400 series controller only.	273913-B21
	64 MB Battery Backed Write Cache Enabler NOTE: This 64MB BBWC supports the Smart Array 642 Controller.	291969-B21
	64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS	284688-B21
	64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter NOTE: For support of external drives only.	268351-B21
	Ultra320 Expansion Module for SA-6402 NOTE: For support of external drives only.	273911-B21
	NOTE: Please see the following Controller or SCSI Adapter QuickSpecs for Technical Specifications such as PCI Bus, PCI Peak Data Transfer Rate, SCSI Protocols supported, SCSI Peak Data Transfer Rate, Channels, SCSI Ports, Drives supported, Cache, RAID support, and additional information::	
	http://h18000.www1.hp.com/products/quickspecs/12030_div/12030_div.HTML (Smart Array 6i)	
	http://h18000.www1.hp.com/products/quickspecs/11587_div/11587_div.HTML (Smart Array 6400 Series)	
	http://h18000.www1.hp.com/products/quickspecs/11563_div/11563_div.HTML (Smart Array 642)	
http://h18000.www1.hp.com/products/quickspecs/10429_div/10429_div.HTML (SCSI Adapter)		
http://h18000.www1.hp.com/products/quickspecs/11555_div/11555_div.HTML (U320 Adapter)		
Communications	HP NC310F PCI-X Gigabit Server Adapter	368169-B21
	NC1020 Cu Gigabit Server Adapter 32 PCI Single Port	353377-B21
	NC6170 Dual Port PCI-X 1000SX Gigabit Server Adapter	313879-B21
	NC7170 Dual Port PCI-X 1000T Gigabit Server Adapter	313881-B21
	NC7771 PCI-X 10/100/1000-T Server Adapter	290563-B21
	NOTE: Any NIC (except the NC1020) on the option list can be used for redundancy with the embedded NC7782 Dual Port Network Controller. When teaming with other NICs or with the embedded NIC, the lack of Jumbo Frames and LSO features on the NC1020 will cause high end NICs to have those features disabled. (e.g. incompatibility issues with the other option NICs for that platform).	
Management Options	ProLiant Essentials Integrated Lights-Out Advanced Pack FEATURING: Sophisticated virtual administration features for ultimate control of servers in the data centers and remote sites	263825-B21
	Remote Insight Lights-Out Edition II (NA, LA)	227251-001
	Remote Insight Lights-Out Edition II (EMEA)	227251-021
	Remote Insight Lights-Out Edition II (ROW)	227251-371

Options

Security	HP/Atalla AXL600L SSL Accelerator Card for ProLiant Servers	524545-B21
	Compaq AXL300 Accelerator PCI Card (HW SSL Encryption) for ProLiant Servers	227933-B21

High Performance Solutions	HPCC Myrinet Fiber NIC	257894-006
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Tape Drives

NOTE: For complete listing of tape drive offerings see <http://www.hp.com/products1/storage/compatibility/tapebackup/ISS/index.html>
For recommended tape drive offerings for this ProLiant server see the following:

External and Rack-Mount Ultrium Tape Drives

HP StorageWorks Ultrium 215 Tape Drive, Internal (Carbon) Q1543A

NOTE: No internal tape drives fit inside the DL360. The internal drive shown here is for the 3U Rack-mount Kit

HP StorageWorks Ultrium 215 Tape Drive, External (Carbon) Q1545A

HP StorageWorks Ultrium 215 rack-mount (Carbon) - Single drive installed in a 3U rack-mount kit 350544-B21

HP StorageWorks Ultrium 215 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300 C7492B

HP StorageWorks Ultrium 230 Tape Drive, Internal (Carbon) Q1515A

NOTE: No internal tape drives fit inside the DL360. The internal drive shown here is for the 3U or 5U Rack-mount Kit

HP StorageWorks Ultrium 230 Tape Drive, External (Carbon) Q1517A

HP StorageWorks Ultrium 230, Rack-mount (Carbon) - Single drive installed in a 3U rack-mount kit 350545-B21

HP StorageWorks Ultrium 230 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300 C7470B

NOTE: Please see the HP StorageWorks Ultrium 215 and 230 Tape Drive QuickSpecs for additional options such as controllers, media, and other related items:

http://h18006.www1.hp.com/products/quickspecs/11739_div/11739_div.html (Worldwide)

http://h18006.www1.hp.com/products/quickspecs/11739_na/11739_na.html
(North America)

For an up-to-date listing of the latest O/S and software support details for HP Ultrium tape drives, please visit: <http://www.hp.com/go/connect>

External and Array Module DAT Drives

HP StorageWorks DAT 72 Tape Drive, Internal (Carbon) Q1522A

NOTE: No internal tape drives fit inside the DL360. The internal drive shown here is for the 3U or 5U Rack-mount Kit

HP StorageWorks DAT 72 Tape Drive, External (Carbon) Q1523A

HP StorageWorks DAT 72 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300 Q1524B

NOTE: Please see the DAT Tape Drive QuickSpecs for controllers, media, and other options:

http://h18000.www1.hp.com/products/quickspecs/11883_div/11883_div.HTML (Worldwide)

http://h18000.www1.hp.com/products/quickspecs/11883_na/11883_na.HTML
(North America)

For an up-to-date listing of the latest O/S and software support details for HP DAT drives, please visit: <http://www.hp.com/go/connect>

Rack-Mount Tape Drive Enclosures

HP StorageWorks 3U Rack-Mount Kit 274338-B21

NOTE: The 3U Rack-Mount Kit can support up to 2 full-height or 4 half-height tape drives and compatible with multiple Single-Ended and LVD SCSI tape drives including DAT, DLT VS80, SDLT 320, Ultrium 215, Ultrium 230, and Ultrium 460 Tape Drives.

HP StorageWorks 5U Rack-Mount Kit 274339-B21

NOTE: The 5U Rack-Mount Kit can support up to 4 full-height tape drives and is compatible with SDLT 320, Ultrium 230, and Ultrium 460 tape drives.

NOTE: Please see the Rack-Mount Tape Drive Kits QuickSpecs for additional information regarding these kits:

http://h18000.www1.hp.com/products/quickspecs/10854_div/10854_div.HTML (Worldwide)

http://h18000.www1.hp.com/products/quickspecs/10854_na/10854_na.HTML

Options

(North America)

HP StorageWorks Tape Array 5300

C7508A

NOTE: The Tape Array 5300 is a 3U enclosure that supports up to 2 full-height or 4 half-height hot-swap array modules, including DAT and Ultrium tape drives. Cables and terminators are not included and must be ordered separately.

NOTE: Please see the Tape Array 5300 QuickSpecs for additional information regarding this product.

http://h18000.www1.hp.com/products/quickspecs/11878_div/11878_div.HTML (Worldwide)

http://h18000.www1.hp.com/products/quickspecs/11878_na/11878_na.HTML

(North America)

Accessories for 3U & 5U Rack-mount Tape Drive Kits

LVD Cable Kit, VHDCI/HD68

168048-B21

NOTE: For use with the 3U Rack-mount Kit and 5U Rack-mount Kit only.

LVD Cable Kit, HD68/HD68

242381-B21

NOTE: For use with the 3U Rack-mount Kit and 5U Rack-mount Kit only.

Tape Autoloaders

DAT Autoloader

HP StorageWorks DAT 72x6 Tape Autoloader, External (Flint)

Q1567A

NOTE: Please see the DAT 72x6 Tape Autoloader QuickSpecs for additional options such as host bus adapters, controllers and media:

http://h18006.www1.hp.com/products/quickspecs/11905_div/11905_div.html

(Worldwide)

http://h18006.www1.hp.com/products/quickspecs/11905_na/11905_na.html

(North America)

HP StorageWorks DAT 40x6 Tape Autoloader, External (Flint)

C5717C

NOTE: Please see the DAT 40x6 Tape Autoloader QuickSpecs for additional options such as host bus adapters, controllers and media:

http://h18000.www1.hp.com/products/quickspecs/11882_div/11882_div.HTML (Worldwide)

http://h18000.www1.hp.com/products/quickspecs/11882_na/11882_na.HTML

(North America)

HP StorageWorks 1/8 Tape Autoloader

1/8 Ultrium 460 Tape Autoloader, Tabletop

AA927A

1/8 SDLT 320 Tape Autoloader, Tabletop

AA926A

1/8 Ultrium 230 Tape Autoloader, Tabletop

C9572CB

1/8 DLT VS80 Tape Autoloader, Tabletop

C9264CB

1/8 Tape Autoloader Rackmount Kit

C9268R

NOTE: Required to install the 1/8 tape autoloader in a standard 19-inch rack.

NOTE: Please reference the 1/8 Tape Autoloader QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>.

HP StorageWorks SSL1016 Tape Autoloader

SSL1016 Ultrium 460 Tape Autoloader

330821-B21

SSL1016 SDLT 320 Tape Autoloader

330816-B21

NOTE: Please reference the SSL1016 Tape Autoloader QuickSpecs at

<http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>.

Tape Libraries

HP StorageWorks MSL6000 Tape Library

MSL6030, 1 drive, 30 slots, Ultrium 460, RM

330731-B22

MSL6030, 2 drive, 30 slots, Ultrium 460, RM

330731-B23

MSL6030, 1 drive, 30 slots, Ultrium 460, RM with embedded FC router

330731-B24

Options

MSL6030, 2 drive, 30 slots, Ultrium 460, RM with embedded FC router	330731-B25
MSL6030, 1 drive, 30 slots, Ultrium 460, TT	330788-B21
MSL6030, 2 drive, 30 slots, Ultrium 460, TT	330788-B22
MSL6060, 2 drive, 60 slot, Ultrium 460, RM	331196-B21
MSL6060, 2 drive, 60 slot, Ultrium 460, RM with embedded FC router	331196-B22
MSL6060, 2 drive, 60 slot, Ultrium 460, TT	331195-B21

NOTE: Please reference the MSL6000 Tape Library QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>.

HP StorageWorks MSL5026S2 Tape Library

MSL5026S2, 1 drive, 26 slots, SDLT 320, RM	293472-B22
MSL5026S2, 2 drive, 26 slots, SDLT 320, RM	293472-B23
MSL5026S2, 1 drive, 26 slots, SDLT 320, RM with embedded FC router	293472-B24
MSL5026S2, 2 drive, 26 slots, SDLT 320, RM with embedded FC router	293472-B25
MSL5026S2, 1 drive, 26 slots, SDLT 320, TT	293473-B21
MSL5026S2, 2 drive, 26 slots, SDLT 320, TT	293473-B22

NOTE: Please reference the MSL5026S2 Tape Library QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>.

HP StorageWorks MSL5052S2 Tape Library

MSL5052S2, 2 drive, 52 slots, SDLT 320, RM	293474-B21
MSL5052S2, 2 drive, 52 slots, SDLT 320, RM with embedded FC router	293474-B24
MSL5052S2, 2 drive, 52 slots, SDLT 320, TT	293476-B21

NOTE: Please reference the MSL5052S2 Tape Library QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>.

HP StorageWorks MSL5030 Tape Library

MSL5030, 1 drive, 30 slots, Ultrium 230, RM	301897-B22
MSL5030, 2 drive, 30 slots, Ultrium 230, RM	301897-B23
MSL5030, 2 drive, 30 slots, Ultrium 230, RM with embedded FC router	301897-B24
MSL5030, 2 drive, 30 slots, Ultrium 230, RM with embedded FC router	301897-B25
MSL5030, 1 drive, 30 slots, Ultrium 230, TT	301898-B21
MSL5030, 2 drive, 30 slots, Ultrium 230, TT	301898-B22

NOTE: Please reference the MSL5030 Tape Library QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>.

HP StorageWorks MSL5060 Tape Library

MSL5060, 2 drive, 60 slots, Ultrium 230, RM	301899-B22
MSL5060, 2 drive, 60 slots, Ultrium 230, RM with embedded FC router	301899-B23
MSL5060, 2 drive, 60 slots, Ultrium 230, TT	301900-B21

NOTE: Please reference the MSL5060 Tape Library QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>.

HP StorageWorks ESL E-Series Tape Libraries

Options

ESL Extended 712e Tape Library, 0 drive, 712 LTO slots	AA934A
ESL Extended 630e Tape Library, 0 drive, 630 SDLT slots	AA935A
ESL Extended 322e Tape Library, 0 drive, 322 LTO slots	AA939A
ESL Extended 286e Tape Library, 0 drive, 286 SDLT slots	AA940A
ESL E Ultrium 460 drive kit	AA937A
ESL E SDLT 320 drive kit	AA936A

NOTE: Please reference the ESL E-Series Tape Libraries QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>.

HP StorageWorks ESL9000 Series Tape Libraries

ESL9595 Extended Tape Library, 0 drive, 400 slots (card cage, Interface Mgr card, Command View license)	343378-B21
ESL9322 Extended Tape Library, 0 drive, 222 slots (card cage, Interface Mgr card, Command View license)	343377-B21
ESL9000 Ultrium 460 drive kit	330834-B21
ESL9000 Ultrium 230 drive kit	301930-B21
ESL9000 SDLT 320 drive kit	293414-B21

NOTE: Please reference the ESL9000 Series Tape Libraries QuickSpecs at <http://www.hp.com/go/automation> for additional information needed to create a complete solution; reference current compatibility information at <http://www.hp.com/go/ebs>.

Magneto-Optical Jukeboxes

HP StorageWorks 9.1 GB Mid-range Optical Jukeboxes

300mx, 2 drive, 32 slot jukebox	C1150M
600mx, 4 drive, 64 slot jukebox	C1160M
700mx, 2 drive, 76 slot jukebox	C1170M

NOTE: Please reference the Magneto-Optical Jukebox data sheets at <http://www.hp.com/go/optical> for additional information needed to create a complete solution.

HP StorageWorks 9.1 GB High-end Optical Jukeboxes

1200mx, 4 drive, up to 128 slots	C1104M
2200mx, 4 drive, up to 238 slots	C1105M
2200mx, 4 drive, up to 238 slots	C1111M
2200mx, 6 drive, up to 238 slots	C1107M
2200mx, 10 drive, up to 238 slots	C1110M

NOTE: Please reference the Magneto-Optical Jukebox data sheets at <http://www.hp.com/go/optical> for additional information needed to create a complete solution.

Options

Ultra Density Optical Jukeboxes	1000ux, 2 drive, 32 slot jukebox	AA965A
	1900ux, 4 drive, 64 slot jukebox	AA966A
	1900ux, 4 mixed drive, 64 slot jukebox	AA968A
	2300ux, 2 drive, 76 slot jukebox	AA967A
	3800ux, 4 drive, 128 slot jukebox	AA969A
	3800ux, 6 drive, 128 slot jukebox	AA970A
	7100ux, 4 drive, 238 slot jukebox	AA973A
	7100ux, 6 drive, 238 slot jukebox	AA971A
	7100ux, 10 drive, 238 slot jukebox	AA972A
	7100ux, 6 mixed drive, 238 slot jukebox	AA974A

NOTE: Please reference the Ultra Density Optical Jukebox QuickSpecs at <http://www.hp.com/go/optical> for additional information needed to create a complete solution

Power Cords

NOTE: The ProLiant DL360 G4 ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For stand-alone deployments or installation without a rack, country-specific power cord options are available. U.S. & Japan models will ship with two power cords: IEC-IEC (142257-002) and North American C13-Nema 5-15P (103541-001) cords.

Power Cord, Euro, 10A 250 V Straight (12 ft/3.7 m)	157215-021
Power Cord, UK, 10A 250 V Straight (12 ft/3.7 m)	157216-031
Power Cord, Danish, 10A 250 V Straight (12 ft/3.7 m)	157218-081
Power Cord, Swiss, 10A 250 V Straight (12 ft/3.7 m)	157219-111
Power Cord, Italian, 10A 250 V Straight (12 ft/3.7 m)	157217-061
Power Cord, South Africa, 10A 250 V Straight (12 ft/3.7 m)	157220-AR1

External Storage - Rack

HP StorageWorks Modular Smart Array 20	335921-B21
NOTE: Rack-mountable 12 (SATA) drive enclosure with U320 Host connectivity, redundant power supplies.	
HP StorageWorks Modular Smart Array 20 Starter Kit	366172-B21
NOTE: Rack-mountable 12 (SATA) drive enclosure with U320 Host connectivity, redundant power supplies. Includes Smart Array 6402/128 Controller.	
NOTE: The Modular Smart Array Enclosure 20 Family supports the SATA 1.5Gb/s 1" Hot Plug Hard Drives.	
HP StorageWorks Modular Smart Array 30 SB	302969-B21
NOTE: Rack-mountable 14 drive enclosure with single bus, redundant power supplies.	
HP StorageWorks Modular Smart Array 30 DB	302970-B21
NOTE: Rack-mountable 14 drive enclosure with dual bus, redundant power supplies.	
NOTE: The Modular Smart Array Enclosure 30 Family supports the Wide Ultra3, Ultra320 1" Hot Plug Hard Drives.	
StorageWorks Modular Smart Array 30 OpenView Storage Mirroring HA Kit - WW	359079-B21
StorageWorks Modular Smart Array 30 OpenView Storage Mirroring HA Kit - Japan	359079-291
Redundant Power Supply 499 W	338296-B21
Ultra320 Single Bus I/O Module for MSA30	287484-B21
Ultra320 Dual Bus I/O Module for MSA30	287483-B21

Options

HP StorageWorks Modular Smart Array 1000	HP StorageWorks Modular Smart Array 1000 NOTE: Please see the Modular Smart Array 1000 QuickSpecs for additional options and configuration information at http://h18000.www1.hp.com/products/quickspecs/11033_na/11033_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11033_div/11033_div.HTML (Worldwide)	201723-B22
HP StorageWorks Modular Smart Array 1500	Modular Smart Array 1500 Controller Shelf NOTE: Please see the StorageWorks Modular SAN Array 1500 QuickSpecs for additional options and configuration information at: http://www.hp.com/go/MSA1500cs	AA986A
StorageWorks Modular Array 8000/Enterprise Modular Array 12000	StorageWorks SAN Director 64 NOTE: Please see the StorageWorks SAN Director 64 QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/11003_na/11003_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11003_div/11003_div.HTML (Worldwide)	254512-B21
StorageWorks Options	StorageWorks 2 Gb, 64-bit/133 MHz PCI-X-to-Fibre Channel Host Bus Adapter for Windows 2000, Windows Server 2003 and Linux NOTE: FCA2214 2 Gb Fibre Channel Host Bus Adapter is a single channel, 64-bit/133 MHz PCI-X-to Fibre Channel Host Bus Adapter (HBA) with an embedded multi-mode optical interface StorageWorks 2 Gb, 64-bit/133 MHz PCI-X to-Fibre Channel Host Bus Adapter for NetWare NOTE: FCA2210 2 Gb, Fibre Channel Host Bus Adapter is a single channel, 64-bit/133 MHz PCI-X-to-Fibre Channel Host Bus Adapter (HBA) with an embedded multi-mode optical interface. FCA2408 - HP StorageWorks 2 Gb, 64-Bit/133 MHz Single Channel , PCI- X-to-Fibre Channel Host Bus Adapter for Windows® 2000 and Windows Server® 2003 NOTE: FCA2408 HP StorageWorks 2 Gb, 133 MHz PCI-X-to-Fibre Channel Host Bus Adapter (HBA) with optical small-form-factor (SFF) (LC) interface. FCA2404DC - HP StorageWorks 2 Gb, Dual Channel, 133 MHz PCI-X-to-Fibre Channel Host Bus Adapter for Windows® 2000, and Windows Server 2003 NOTE: FCA2404DC HP StorageWorks 2 Gb Fibre Channel Host Bus Adapter is a dual channel, 133 MHz, PCI-X to Fibre Channel Host Bus Adapter (HBA) with an embedded multi-mode optical interface. FCA2404 - StorageWorks 2 Gb, single channel, 133 MHz PCI-X-to-Fibre Channel Host Bus Adapter for Windows 2000, Windows NT and Windows Server 2003 NOTE: FCA2404 StorageWorks 2 Gb, Fibre Channel Host Bus Adapter is a single channel, multi-path failover, 133 MHz, PCI-X to Fibre Channel Host Bus Adapter (HBA) with an embedded multi-mode optical interface for ProLiant Server connects StorageWorks 2 Gb, Dual Port, 64-Bit/133 MHz PCI-X-to-Fibre Channel Host Bus Adapter for W2K, Windows Server 2003 and Linux NOTE: FCA2214DC StorageWorks 2 Gb Dual Port, Fibre Channel Host Bus Adapter is a 64-bit/133 MHz, PCI-X-to Fibre Channel Host Bus Adapter (HBA) with an embedded multi-mode optical interface. StorageWorks SAN Switch 2/8-EL StorageWorks SAN Switch 2/8-EL Upgrade StorageWorks SAN Switch 2/16 StorageWorks SAN Switch 2/16-EL Upgrade	281541-B21 281540-B21 343073-B21 323264-B21 305573-B21 321835-B21 322120-B21 325888-B21 322118-B21 325889-B21

Options

HP StorageWorks Modular Smart Array 500	<p>HP StorageWorks Modular Smart Array 500 Generation 2</p> <p>NOTE: Please see the Modular Smart Array 500 Generation 2 QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://h18000.www1.hp.com/products/quickspecs/11956_na/11956_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11956_div/11956_div.HTML (Worldwide)</p>	335880-B21
	<p>HP StorageWorks Modular Smart Array 500</p> <p>NOTE: Please see the Modular Smart Array 500 Generation 2 QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://h18000.www1.hp.com/products/quickspecs/11050_na/11050_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11050_div/11050_div.HTML (Worldwide)</p>	201724-B21
Cluster Options	<p>ProLiant Cluster Starter Kit</p> <p>NOTE: For additional information regarding the ProLiant Cluster Starter Kit please see the following QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11935_na/11935_na.html (North America) http://h18000.www1.hp.com/products/quickspecs/11935_div/11935_div.html (Worldwide)</p> <p>ProLiant Cluster Kit with OpenView Storage Mirroring</p> <p>NOTE: For additional information regarding the ProLiant Cluster Kit with OpenView Storage Mirroring please see the following QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11934_na/11934_na.html (North America) http://h18000.www1.hp.com/products/quickspecs/11934_div/11934_div.html (Worldwide)</p> <p>ProLiant Cluster HA/F200 for the Entry Level SAN</p> <p>ProLiant Cluster HA/F200 for the Entry Level SAN (Japan)</p> <p>NOTE: For additional information regarding the ProLiant Cluster for Entry Level SAN please see the following QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11932_na/11932_na.html (North America) http://h18000.www1.hp.com/products/quickspecs/11932_div/11932_div.html (Worldwide)</p> <p>ProLiant Cluster HA/F500 for the Enterprise SAN</p> <p>NOTE: For additional information regarding the ProLiant Cluster HA/F500 for Enterprise SAN please see the following QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11933_na/11933_na.html (North America) http://h18000.www1.hp.com/products/quickspecs/11933_div/11933_div.html (Worldwide)</p>	364023-B21 364025-B21 364026-B21 364026-291 364024-B21
UPS Power Cord Matrix	<p>Please see the UPS Power Cord Matrix for cable descriptions, requirements, and specifications for UPS units: ftp://ftp.compaq.com/pub/products/servers/proliantstorage/power-protection/powercordmatrix.pdf.</p>	

Options

Uninterruptible Power Systems – Rack Mountable	HP UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA)	204404-001
	HP UPS R1500 XR (1500VA, 1340 Watt), High Voltage (Int'l)	204404-B31
	HP UPS R1500 XR (1500VA, 1340 Watt), Low Voltage (Japan)	204404-291
	HP UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA)	192186-001
	HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA)	192186-002
	HP UPS R3000 XR (2400VA, 2250 Watt), Low Voltage (Japan)	192186-291
	HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan)	192186-292
	HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Int'l - detachable cord)	192186-B31
	HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A IEC309 Plug)	192186-B32
	HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A CEE 7/7 SCHUKO Plug)	192186-B33
	HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A BS-546 Plug)	192186-AR1
	HP UPS R5500 XR, (5000VA, 4500 Watt), High Voltage (NA/Jpn)	326529-D71
	HP UPS R5500 XR, (6000VA, 5400 Watt), High Voltage (Int'l)	326529-B31
	HP UPS R12000 XR, N+ x (12KVA, 12KW) High Voltage (WW)	207552-B22

NOTE: UPS R12000 has a hardwired input and output connection.

Modular PDUs 1U/0U (Up to 32 outlets) NOTE: 1U/0U mounting brackets shipped with the unit (optimized for 10000 and 9000 series racks).	Fixed Cord Extension Bars	351655-B21
	NOTE: Two extension bar sticks; each with (7) C13 plugs.	
	Fixed Cord PDU (NA/JPN)	351655-D72
	NOTE: Four Fixed Cord Extension Bars, and one 24A, HV mPDU L6-30P core.	
	Fixed Cord PDU (INTL)	351655-B31
	NOTE: Four Fixed Cord Extension Bars, and one 32A, HV mPDU IEC-309 core.	
	HP Modular Power Distribution Units (mPDU), Low Volt Model, 24A (100-127 VAC) (NA, Japan)	252663-D71
	NOTE: This mPDU (252663-D71) may also be used to connect the low volt model of the UPS R3000 XR.	
	HP Modular Power Distribution Units (mPDU), High Volt Model, 24A (200-240 VAC) (NA, Japan)	252663-D72
	HP Modular Power Distribution Units (mPDU), High Volt Model, 32A (200-240 VAC) (Int'l)	252663-B31
	HP Modular Power Distribution Units (mPDU), High Volt Model, 40A (200-240 VAC) (WW)	252663-B21
	NOTE: This mPDU (252663-B21), 40A model has a hardwired input.	
HP Modular Power Distribution Unit(mPDU), High Volt Model, 16A (200-240 VAC) (WW)	252663-B24	
NOTE: This PDU has a detachable input power cord and allows for adaptability to country specific power requirements. This model may also be used with the high volt UPSs R3000 XR and R6000 For North America, need to order cable PN 340653-001.		
NOTE: Please see the following Modular Power Distribution Unit (Zero-U/1U Modular PDUs) QuickSpecs for additional options including shorter jumper cables and country specific power cords: http://h18000.www1.hp.com/products/quickspecs/11041_na/11041_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11041_div/11041_div.HTML (Worldwide)		

USB Options	HP USB 2-Button Optical Scroll Mouse (Carbonite/Silver)	DC172B
	USB 1.44-MB External Diskette Drive (Carbonite)	DC141B
	USB Easy Access Keyboard (Carbonite/Silver)	DC168B#
	256MB HP Drive Key	DL973B
	Multibay USB cradle	DC373A#ABA
	Multibay USB cradle	DC373A#B13

Options

USB Easy Access Keyboard (Carbonite/Silver) Country Key Code

Dash #	Description	Dash #	Description
A2M	ICELAND	ABT	HE
AB0	TAWA	ABU	UK
AB1	KOR	ABV	ARA
AB2	PRC	ABX	FIN
AB6	FRA	ABY	DEN
AB7	GRK	ABZ	ITL
AB8	TURK	AC0	BEL
AB9	PORT	AC4	BRZ
ABA	US	ACB	RUSS
ABB	EURO	AKB	CZE
ABC	FCAN	AKC	HUNG
ABD	GR	AKD	POL
ABE	SP	AKL	THAI
ABF	FR	AKN	BHCSY
ABH	NL	AKR	SLOV
ABJ	Japan	ARK	ICELAND
ABM	LA	B15	KAZ
ABN	NOR	UUZ	SWISS
ABS	SW		

Customer Builder

Please see the Enterprise Configurator for configuration assistance at: <http://www.hp.com/products/configurator>.

ProLiant DL360 G4

Deployment Options

460W HP redundant power supply with IEC cord only

354587-B21

460W HP redundant power supply with US or Japanese NEMA cord only

354587-001

NOTE: The HP ProLiant DL360 G4 ships with a single IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For stand-alone deployments or installation without a rack, country-specific power cord options are available. U.S., Japan, & APD models ship with two power cords: IEC-IEC and country-specific NEMA cords.

Third Party Rack Kit

Rack Adapter Kit

332815-B21

NOTE: This kit allows HP rack servers to fit in racks that are 24" wide.

Options

HP Rack 10000 Series (Graphite Metallic)	HP Rack S10614 (14U) Rack Cabinet - Shock Pallet	292302-B22
	HP Rack 10842 (42U, 800mm wide) – Pallet	257415-B21
	HP Rack 10842 (42U, 800mm wide) – Shock Pallet	257415-B22
	HP Rack 10647 (47U) – Pallet	245160-B21
	HP Rack 10647 (47U) – Crated	245160-B23
	HP Rack 10642 (42U) – Pallet	245161-B21
	HP Rack 10642 (42U) – Shock Pallet	245161-B22
	HP Rack 10642 (42U) – Crated	245161-B23
	HP Rack 10636 (36U) – Pallet	245162-B21
	HP Rack 10636 (36U) – Shock Pallet	245162-B22
	HP Rack 10636 (36U) – Crated	245162-B23
	HP Rack 10622 (22U) – Pallet	245163-B21
	HP Rack 10622 (22U) – Shock Pallet	245163-B22
	HP Rack 10622 (22U) – Crated	245163-B23

NOTE: -B21 (pallet) used to ship empty racks shipped on a truck

-B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and Channels)

-B23 (crated) used for air shipments of empty racks

NOTE: It is mandatory to use a shock pallet in order to ship racks with equipment installed. Not all HP equipment is qualified to be shipped in the Rack 10000 series

NOTE: Please see the Rack 10000 QuickSpecs for Technical Specifications such as height, width, depth, weight, and color:

http://h18000.www1.hp.com/products/quickspecs/10995_div/10995_div.HTML (Worldwide)

http://h18000.www1.hp.com/products/quickspecs/10995_na/10995_na.HTML (North America)

NOTE: For additional information regarding Rack Cabinets, please see the following URL:

<http://h18000.www1.hp.com/products/servers/proliantstorage/rack-ptions/index.html>.

Options

Rack Options for Rack 10000 Series

HP Light kit for 10000 series rack	361589-B21
HP Plinth kit for 10000 series rack	251960-B21
Server Console Switch, 0 x 1 x 8 -port	336044-B21
Server Console Switch, 0 x 2 x 16 -port	336045-B21
Server Console Switch 1 x 2-port (100 to 230 VAC)	120206-001
Server Console Switch 1 x 2-port (100 to 230 VAC) (Int'l)	120206-B31
Server Console Switch 1 x 2-port (100 to 230 VAC) (Japan)	120206-291
Server Console Switch 1 x 4-port (100 to 230 VAC)	400336-001
Server Console Switch 1 x 4-port (100 to 230 VAC) (Int'l)	400336-B31
Server Console Switch 1 x 4-port (100 to 230 VAC) (Japan)	400336-291
IP Console Switch Box, 1 x 1 x 16	262585-B21
IP Console Switch Box, 3 x 1 x 16	262586-B21
IP Console Interface Adapter, 8 pack	262587-B21
IP Console Interface Adapter, 1 pack	262588-B21
IP Console Expansion Module	262589-B21
KVM USB Interface Adapter	336047-B21
CPU to Server Console Cable, 12'	110936-B21
CPU to Server Console Cable, 3'	110936-B24
CPU to Server Console Cable, 7'	110936-B25
IP CAT5 Cable 3', 4 pack	263474-B21
IP CAT5 Cable 6', 8 pack	263474-B22
IP CAT5 Cable 12', 8 pack	263474-B23
IP CAT5 Cable 20', 4 pack	263474-B24
IP CAT5 Cable 40', 1 pack	263474-B25
Switch Box Connector Kit (high voltage) (Int'l)	144007-B33
TFT7210R Rack Mounted 17" Monitor	348373-B21
TFT5600 RKM Rack Keyboard Monitor	221546-xx1

Country Code Key (for TFT5600 RKM Rack Keyboard Monitor (PN 221546-xx1))

XX = 00	US	XX = 09	Norway
XX = 03	UK	XX = 10	Sweden/Finland
XX = 04	Germany	XX = 11	Switzerland
XX = 05	France	XX = 13	Portugal
XX = 06	Italy	XX = 18	Belgium
XX = 07	Spain	XX = 29	Japan
XX = 08	Denmark	XX = B3	International

NOTE: For additional information regarding Rack Cabinets, please see the following URL:
<http://h18000.www1.hp.com/products/servers/proliantstorage/rack-ptions/index.html>.

NOTE: For a complete list of Monitors please view the following URL:
<http://h18004.www1.hp.com/products/monitors/>

Options

HP Factory Express

Factory Installation, Racking, and Customization Services

Factory Express Server Configuration Level 1 293355-888

NOTE: Free Installation of HP Options - Installation of HP Options memory, NICs, hard drives, controllers, processors, I/O cards, pre-install standard OEM OS image, and tape drives. Installation fees will apply to all non-HP certified hardware and asset tags.

Factory Express Server Configuration Level 2 266326-888

NOTE: Includes Level 1 Customer Intent of a ProLiant server and options configuration, OS installation, custom image download, IP addressing, network setting, and custom packaging. Customer unique requirements (quick restore creation, cd duplication, test reports, real-time reporting of server MAC address, password, and RILOE). Customer access, validation and control through VPN (price/server).

Factory Express Rack Integration Level 3 with 1 – 3 servers or storage enclosures 325736-888

Factory Express Rack Integration Level 3 with 4 – 9 servers or storage enclosures 232539-888

Factory Express Rack Integration Level 3 with 10 or more servers or storage enclosures 325735-888

NOTE: Includes Level 1 Customer Intent for standard mounted servers and storage units plus standard cable mgmt, RAID configuration, servers & storage, power distribution, networking gear and accessories (price/rack).

Factory Express Rack Integration Level 4 with 1 – 3 servers or storage enclosures 325734-888

Factory Express Rack Integration Level 4 with 4 – 9 servers or storage enclosures 232540-888

Factory Express Rack Integration Level 4 with 10 or more servers or storage enclosures 325733-888

NOTE: Includes Level 2 Customer Intent plus customer defined cable management and naming convention, customer furnished image download, IP addressing, cluster configurations (SQL, External storage RAID). Quick restore creation, cd duplication, test reports, real-time reporting of server MAC address, password, RILOE). Customer access and validation through VPN (price/rack).

Factory Express Rack Integration Level 5 with 1 – 3 servers or storage enclosures 325732-888

Factory Express Rack Integration Level 5 with 4 – 9 servers or storage enclosures 232541-888

Factory Express Rack Integration Level 5 with 10 or more servers or storage enclosures 325731-888

NOTE: Includes Level 4 Customer Intent plus Custom SW layering and extended test, Customer access, validation and control through VPN, Clustered racks with networking gear and / or external storage array, Start-up installation services custom quote. (price/rack).

NOTE: Factory Express Engineered Solution Level 6 is a custom solutions available through Factory Express. Please contact your local reseller or Account Manager.

Options

Service and Support Offerings (HP Care Pack Services)

Hardware Services 4-Hour On-site Service

4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years	U4496A
4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years, Electronic	U4496E
4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years	U4497A
4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic	U4497E

Hardware Services 6-Hour Call to Repair On-site Service

6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years	U4498A
6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic	U4498E

Hardware Services Next Business Day On-Site Service

Hardware Installation	U4506A
Hardware Installation, Electronic	U4506E
Installation & Start-Up of a ProLiant server and Microsoft or Linux O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays.	U4507A
Installation & Start-Up of a ProLiant server and Microsoft or Linux O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays, Electronic	U4507E

Support Plus

Onsite HW support, 8am-9pm, M-F, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays.	U4508A
Onsite HW support, 8am-9pm, M-F, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays, Electronic	U4508E

Support Plus 24

Onsite HW support 24x7, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays.	U4509A
Onsite HW support 24x7, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic	U4509E
Onsite HW support 24x7, 4hr response and SuSE Linux SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays.	U6310
Onsite HW support 24x7, 4hr response and SuSE Linux SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic	U6310E
Onsite HW support 24x7, 4hr response and Red Hat ES2.1 Linux SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays.	U8332A
Onsite HW support 24x7, 4hr response and Red Hat ES2.1 Linux SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic	U8332E

NOTE: For more information, customer/resellers can contact <http://www.hp.com/services/carepack>.

Memory

NOTE: Memory configurations listed do not apply to "Factory Integrated Models".

HP ProLiant DL360 G4 3.06 GHz and 3.4GHz-1MB Models

Standard Memory

1-GB PC2700 DDR 333 Registered SDRAM DIMM installed (1 x 1-GB SDRAM DIMM)

Upgrading Memory and Memory Interleaving

When upgrading memory, DIMMs 1A and 2A must match. DIMMs 3B and 4B must match and must be installed as a pair. When DIMMs 1A and 2A are populated the system is automatically configured for 2:1 interleaving. When all four DIMMs are populated with identical DIMMs the system is automatically configured for bank interleaving. Bank B can be configured for Online Spare Memory.

Standard Memory Plus Optional Memory

Up to 6-GB memory is available with the standard memory of 1-GB and the optional installation of PC2700 DDR 333 Registered SDRAM DIMM memory kits

Standard Memory Replaced with Optional Memory

Up to 8-GB of memory is available with the removal of the standard 1-GB of memory and the optional installation of PC2700 DDR 333 Registered SDRAM DIMM memory kits

NOTE: Chart does not represent all possible configurations.

Memory		Slot			
		1	2	3	4
Standard	1 GB	1 GB	Empty	Empty	Empty
Optional	6 GB	1 GB	1 GB	2 GB	2 GB
Maximum	8 GB	2 GB	2 GB	2 GB	2 GB

Following are memory options available from HP:

- 512MB of Advanced ECC PC2700 DDR 333 SDRAM DIMM Memory Kit (1 x 512 MB) 358347-B21
- 1 GB of Advanced ECC PC2700 DDR 333 SDRAM DIMM Memory Kit (1 x 1 GB) 358348-B21
- 2 GB of Advanced ECC PC2700 DDR 333 SDRAM DIMM Memory Kit (1 x 2 GB) 358349-B21

HP ProLiant DL360 G4 3.4GHz-1MB RPS Models

Standard Memory

2-GB PC2700 DDR 333 Registered SDRAM DIMM installed (2 x 1-GB SDRAM DIMM)

Upgrading Memory and Memory Interleaving

When upgrading memory, DIMMs 1A and 2A must match. DIMMs 3B and 4B must match and must be installed as a pair. When DIMMs 1A and 2A are populated the system is automatically configured for 2:1 interleaving. When all four DIMMs are populated with identical DIMMs the system is automatically configured for bank interleaving. Bank B can be configured for Online Spare Memory.

Standard Memory Plus Optional Memory

Up to 6-GB memory is available with the standard memory of 1-GB and the optional installation of PC2700 DDR 333 Registered SDRAM DIMM memory kits

Standard Memory Replaced with Optional Memory

Up to 8-GB of memory is available with the removal of the standard 1-GB of memory and the optional installation of PC2700 DDR 333 Registered SDRAM DIMM memory kits

NOTE: Chart does not represent all possible configurations.

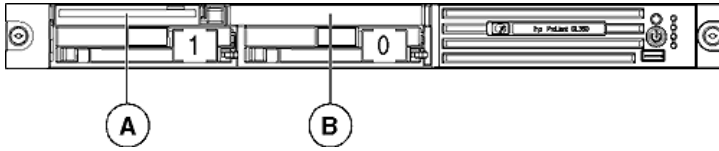
Memory		Slot			
		1	2	3	4
Standard	2 GB	1 GB	1 GB	Empty	Empty
Optional	6 GB	1 GB	1 GB	2 GB	2 GB
Maximum	8 GB	2 GB	2 GB	2 GB	2 GB

Memory

Following are memory options available from HP:

- 512MB of Advanced ECC PC2700 DDR 333 SDRAM DIMM Memory Kit (1 x 512 MB) 358347-B21
- 1 GB of Advanced ECC PC2700 DDR 333 SDRAM DIMM Memory Kit (1 x 1 GB) 358348-B21
- 2 GB of Advanced ECC PC2700 DDR 333 SDRAM DIMM Memory Kit (1 x 2 GB) 358349-B21

Storage



- 1,0 2 x 1 inch Wide Ultra320 Hot Pluggable Hard Drive Bays; SATA model also available
- A 1.44-MB Diskette Drive (removeable)
- B Low-Profile 24x IDE CD-ROM (ejectable)

Drive Support

	Quantity Supported	Position Supported	Controller
Removable Media			
1.44-MB Diskette Drive	Up to 1	A	Integrated
Low-profile 24x IDE CD-ROM Drive	Up to 1	B	Integrated IDE
Slim Line DVD-Rom Drive (8x/24x) Option Kit (Servers)	Up to 1	B	Integrated IDE

Hard Drives

Ultra320 Hot Pluggable Drives

NOTE: The DL360 G4 only supports U320 Universal drives.

	Quantity Supported	Position Supported	Controller
1-inch	Up to 2	0-1	Smart Array 6i Controller (integrated on system board)
300-GB 10,000 rpm			NOTE: The ProLiant DL360 Generation 4 (G4) does not offer an external SCSI port.
146.8-GB 10,000 rpm			Smart Array 6402/128 Controller
72.8-GB 10,000 rpm			Smart Array 6404/256 Controller
72.8-GB 15,000 rpm			Smart Array 642 Controller
36.4-GB 15,000 rpm			64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter

Serial-ATA (SATA) Hard Drive

NOTE: When SATA drives are installed, Hot-plug capability and LEDs are only supported when a Serial ATA Smart Array option card has been installed.

	Quantity Supported	Position Supported	Controller
1-inch	Up to 2	0-1	
80GB 7.2k SATA			
160GB 7.2k SATA			
250GB 7.2k SATA			

Storage

External Storage

	Quantity Supported	Position Supported	Host Controller or Adapter
Modular Smart Array20 Family	Please see the Modular Smart Array 20 QuickSpecs to determine configuration requirements	External	Smart Array 6402/128 Controller Smart Array 6404/256 Controller Smart Array 642 Controller 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS
Modular Smart Array 30 Family	Please see the Modular Smart Array 30 QuickSpecs to determine configuration requirements.	External	Smart Array 6402/128 Controller Smart Array 6404/256 Controller Smart Array 642 Controller 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS
Modular Smart Array 500 G2 System	1	External	Smart Array 642 Controller (used as Host Bus Adapter) Please see the Modular Smart Array 500 G2 QuickSpecs for the latest list of supported HBAs: http://www.hp.com/go/msa500
Modular Smart Array 500 System	1	External	Please see the Modular Smart Array 500 QuickSpecs for the latest list of supported HBAs: http://www.hp.com/go/msa500
Modular Smart Array 1500	Please see the Modular Smart Array 1500 QuickSpecs below to determine configuration requirements	External	Please see the Modular Smart Array 1500 QuickSpecs (URL below) for the latest list of supported HBAs
Modular Smart Array 1000	Please see the Modular Smart Array 1000 QuickSpecs below to determine configuration requirements	External	Please see the Modular Smart Array 1000 QuickSpecs (URL below) for the latest list of supported HBAs
Modular Smart Array 1000: http://h18000.www1.hp.com/products/quickspecs/11033_div/11033_div.HTML (Worldwide)			
http://h18000.www1.hp.com/products/quickspecs/11033_na/11033_na.HTML (North America)			
Modular Smart Array 1500: http://www.hp.com/go/MSA1500cs			

Storage

Tape Drives, Tape Autoloaders, & Tape Libraries

NOTE: For an up-to-date listing of the latest O/S Support details for each of the Tape Drives listed below, please see the following:

http://www5.compaq.com/products/quickspecs/North_America/10233.html (North America)

<http://www5.compaq.com/products/quickspecs/Division/10233.html> (Worldwide)

NOTE: For an up-to-date listing of the latest O/S Support details for each of the Tape Autoloaders & Tape Libraries listed below, please see the following:

http://www5.compaq.com/products/quickspecs/North_America/10809.html (North America)

<http://www5.compaq.com/products/quickspecs/Division/10809.html> (Worldwide)

	Quantity Supported	Position Supported	Controller
<ul style="list-style-type: none"> Ultrium 215, External Ultrium 230, External 	Up to 2	External	<ul style="list-style-type: none"> 64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS
<ul style="list-style-type: none"> HP StorageWorks DAT 72 Tape Drive, External 	Up to 2	External	<ul style="list-style-type: none"> 64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS
<ul style="list-style-type: none"> HP StorageWorks DAT 40x6 Tape Autoloader, DAT 72x6 Tape Autoloader, External 1/8 Ultrium 460 Tape Autoloader 1/8 SDLT 320 Tape Autoloader, 1/8 Ultrium 230 Tape Autoloader 1/8 DLT VS80 Tape Autoloader, SSL1016 Ultrium 460 Tape Autoloader, SSL1016 SDLT 320 Tape Autoloader, 	1 autoloader per SCSI channel	External	<ul style="list-style-type: none"> 64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS
<ul style="list-style-type: none"> MSL6000 MSL5026S2 MSL5052S2 MSL5030 MSL5060 	Please reference the MSL Tape Library QuickSpecs to determine configuration requirements	External	<ul style="list-style-type: none"> 64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS
<ul style="list-style-type: none"> ESL712e ESL630e ESL322e ESL286e ESL9322 ETLA ESL9595 ETLA 	Please reference the ESL e-series & ESL9000 Series Tape Libraries QuickSpecs to determine configuration requirements	External	<ul style="list-style-type: none"> 64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS

Power Specifications

To review typical system power ratings use the Active Answers Power Calculator which is available via the online tool located at URL:
<http://h30099.www3.hp.com/configurator/calc/Power%20Calculator%20Catalog.xls>

To drill down to calculators:

- Click on: "ProLiant Servers"
- Click on the Server of interest. Example: DL360 G4
- Click on: "Power Calculator" link. (You may need to scroll down to see it)

Technical Specifications

System Unit	Dimensions (HxWxD)	1.70 x 16.78 x 27.75 in (4.32 x 42.62 x 70.49 cm)
	Weight	<p>Maximum (two hard drives installed, two power supply, two processor) 37 lb (16.78 kg)</p> <p>No hard drives installed, one power supply, one processor 27.5 lb (12.47 kg)</p>
	Input Requirements	<p>Rated Input Voltage 100 to 240 VAC</p> <p>Rated Input Current 5.85 Amps (100 V) to 2.85 Amps (200 V)</p> <p>Rated Input Frequency 50 to 60 Hz</p> <p>Rated Input Power 585 W (100VAC) to 565 W (200VAC)</p> <p>NOTE: 585 W of Rated Input Power is for the Maximum Peak Output Power of 460 W.</p>
	BTU Rating	<p>2000 BTU/HR</p> <p>NOTE: The BTU rating listed is for the Rated Input Power of 585 W.</p>
	Power Specifications	<p>To review typical system power ratings use the Power Calculator which is available via the online tool located at URL: http://h30099.www3.hp.com/configurator/calc/Power%20Calculator%20Catalog.xls</p> <p>To drill down to calculators:</p> <ul style="list-style-type: none"> - Click on: "ProLiant Servers" - Click on the Server of interest. Example: DL360 G4 - Click on: "Power Calculator" link. (You may need to scroll down to see it)
	Power Supply Output Power (per power supply)	Rated Steady-State Power 460 W
	Temperature Range	<p>Operating 10° to 35°C at sea level with an altitude derating of 1.0°C per every 300m (1000ft) above sea level to a maximum of 3000m (10,000ft), no direct sustained sunlight. Maximum rate of change is 10°C/Hr.</p> <p>Storage -30° to 60°C - Maximum rate of change is 20°C/Hr.</p>
	Relative Humidity (non-condensing)	<p>Operating 10 to 90% relative humidity (Rh), 28°C maximum wet bulb temperature</p> <p>Storage 5 to 95% relative humidity (Rh), 38.7°C maximum wet bulb temperature</p>
	Maximum Wet Bulb Temperature	38.7° C
	SCSI Connectors	No external VHDCI connector
	Acoustic Noise	<p>Idle (Fixed Disk Drives Spinning)</p> <p>L_{WAd} (BELS) 6.6</p> <p>L_{pAm} (dBA) 50</p> <p>Operating (Random Seeks to Fixed Disks)</p> <p>L_{WAd} (BELS) 6.9 BELS</p> <p>L_{pAm} (dBA) 53 dBA</p>

Technical Specifications

Smart Array 6i Controller (integrated on system board)	Data Compatible with all Smart Array Controllers	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI-X Bus	64-bit up to 133 (integrated on system board)
	PCI-X Peak Data Transfer Rate	800 MB/s
	SCSI Protocols Supported	Ultra 320, Ultra3, Ultra2
	SCSI Peak Data Transfer Rate	320 MB/s per channel NOTE: For ProLiant servers having TWO internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 320 MB/s; 160 MB/s per channel and Channels is 2
	Channels	2 NOTE: For ProLiant servers having two internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 320 MB/s; 160 MB/s per channel and Channels is 2.
	SCSI Ports (external/internal)	0/2 NOTE: For ProLiant servers having two internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 320 MB/s; 160 MB/s per channel and Channels is 2.
	Drives Supported (maximum)	Maximum = total number of drives NOTE: True Maximum is 14HDs per channel with up to 2TB per logical volume.
	Cache	64 MB Read Cache
	Battery-Backed Write Cache	Yes, with installation of Battery-Backed Write Cache Enabler, up to 128MB
	RAID Support	0, 1, 1+0, 5
	Logical Drives (maximum)	Maximum = total number of drives
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No

Technical Specifications

Embedded NC7782 Dual Port NIC	Network Interface	10/100/1000-T	
	Compatibility	EEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 80.3u 100Base-TX	
	Data Transfer Method	64-bit/66MHz PCI-X	
	Network Transfer Rate	10Base-T (Half-Duplex) 10 Mb/s 10Base-T (Full-Duplex) 20 Mb/s 100Base-TX (Half-Duplex) 100 Mb/s 100Base-TX (Full-Duplex) 200 Mb/s 100Base-TX (Half-Duplex) 1000 Mb/s 1000Base-TX (Full-Duplex) 2000 Mb/s	
	Connector	RJ-45	
	Cable Support	10Base-T Categories 3, 4 or 5 UTP up to 328 ft (100 m) 10/100/1000 Base-TX Category 5 UTP up to 328 ft (100 m)	

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